

This document provides pertinent information concerning the reissuance of the VPDES Permit listed below. This permit is being processed as a Minor, Municipal permit. The discharge results from the operation of a 0.005 MGD wastewater treatment plant. This permit action consists of updating the proposed effluent limits to reflect the current Virginia WQS, effective 6 January 2011, and updating permit language, as applicable. The effluent limitations and special conditions contained in this permit will maintain the Water Quality Standards of 9VAC25-260-00 et seq.

- | | | | |
|---|--|---|----------------|
| 1. Facility Name and Mailing Address: | Hill Mobile Home Park STP #2
5805 Staples Mill Road
Richmond, VA 23228 | SIC Code: | 4952 WWTP |
| Facility Location: | Intersection of Lakewood Road and AP Hill Blvd., Bowling Green | County: | Caroline |
| Facility Contact Name: | Mr. Mike Cook | Telephone Number: | 804-387-6362 |
| 2. Permit No.: | VA0090689 | Expiration Date: | 25 May 2011 |
| Other VPDES Permits: | Not Applicable | | |
| Other Permits: | PWSID 60335 10 (Public Water) | | |
| E2/E3/E4 Status: | Not Applicable | | |
| 3. Owner Name: | SMG LLC | | |
| Owner Contact / Title: | Mr. James Benson / Manager, Partner | Telephone Number: | 804-741-0234 |
| 4. Application Complete Date: | 23 February 2011 | | |
| Permit Drafted By: | Douglas Frasier | Date Drafted: | 31 March 2011 |
| Draft Permit Reviewed By: | Alison Thompson | Date Reviewed: | 7 April 2011 |
| | Bryant Thomas | Date Reviewed: | 5 May 2011 |
| Public Comment Period: | Start Date: 10 May 2011 | End Date: | 8 June 2011 |
| 5. Receiving Waters Information: | See Attachment 1 for the Flow Frequency Determination. | | |
| Receiving Stream Name: | Maracossic Creek, UT | Stream Code: | 8-XJJ |
| Drainage Area at Outfall: | 0.12 square miles | River Mile: | 0.7 |
| Stream Basin: | York River | Subbasin: | None |
| Section: | 03 | Stream Class: | III |
| Special Standards: | None | Waterbody ID: | VAN-F22R |
| 7Q10 Low Flow: | 0.0 MGD | 7Q10 High Flow: | 0.0 MGD |
| 1Q10 Low Flow: | 0.0 MGD | 1Q10 High Flow: | 0.0 MGD |
| Harmonic Mean Flow: | 0.0 MGD | 30Q5 Flow: | 0.0 MGD |
| 303(d) Listed: | No | 30Q10 Flow: | 0.0 MGD |
| TMDL Approved: | No | Date TMDL Approved: | Not applicable |
| 6. Statutory or Regulatory Basis for Special Conditions and Effluent Limitations: | | | |
| <input checked="" type="checkbox"/> State Water Control Law | | <input type="checkbox"/> EPA Guidelines | |
| <input checked="" type="checkbox"/> Clean Water Act | | <input checked="" type="checkbox"/> Water Quality Standards | |
| <input checked="" type="checkbox"/> VPDES Permit Regulation | | <input type="checkbox"/> Other: | |
| <input checked="" type="checkbox"/> EPA NPDES Regulation | | | |
| 7. Licensed Operator Requirements: | Class III | | |
| 8. Reliability Class: | Class II | | |

9. Permit Characterization:

<input checked="" type="checkbox"/> Private	<input checked="" type="checkbox"/> Effluent Limited	<input type="checkbox"/> Possible Interstate Effect
<input type="checkbox"/> Federal	<input checked="" type="checkbox"/> Water Quality Limited	<input type="checkbox"/> Compliance Schedule Required
<input type="checkbox"/> State	<input type="checkbox"/> Toxics Monitoring Program Required	<input type="checkbox"/> Interim Limits in Permit
<input type="checkbox"/> POTW	<input type="checkbox"/> Pretreatment Program Required	<input type="checkbox"/> Interim Limits in Other Document
<input type="checkbox"/> TMDL		

10. Wastewater Sources and Treatment Description:

Sewage flows via gravity to a septic tank preceding the treatment plant. The sewage is then pumped from the septic tank to the package plant.

The treatment plant is manufactured by Fluidyne and consists of a three cell Sequence Batch Reactor (SBR) using Sequenced Anoxic Mixing (SAM) technology. The following describes each cell and the processes that occur during treatment:

- The sewage flows into the first cell which serves as a surge tank/EQ basin, digester for WAS and as a grit removal unit. As the first cell fills, it overflows into the second cell.
- The second cell is the anoxic zone where denitrification occurs. There are two centrifugal pumps that once activated, begin filling the third cell.
- Aeration and mixing occur in the third cell. Settling occurs and then the supernatant is decanted and discharged.

Disinfection is completed via a tablet chlorinator; dechlorination is also accomplished by a tablet feeder. Effluent passes through a post aeration unit prior to discharge.

See **Attachment 2** for a facility schematic/diagram.

TABLE 1 OUTFALL DESCRIPTION				
Number	Discharge Sources	Treatment	Design Flow	Latitude / Longitude
001	Domestic Wastewater	See Item 10 above.	0.005 MGD	38° 03' 51" / 77° 19' 52"
See Attachment 3 for the Bowling Green topographic map.				

11. Sludge Treatment and Disposal Methods:

There is no sludge treatment at this facility; storage only. Sludge is pumped and hauled to the Caroline County Regional Wastewater Treatment Facility (VA0073504) for final treatment and disposal.

12. Discharges Located within Two Miles of this Discharge:

TABLE 2 DISCHARGES			
ID / Permit Number	Facility Name	Type	Receiving Stream
VA0020737	Town of Bowling Green WWTP	municipal discharge	Mattaponi River, UT

13. Material Storage:

TABLE 3 MATERIAL STORAGE		
Materials Description	Volume Stored	Spill/Stormwater Prevention Measures
Hypochlorite	Three 5 gallon buckets	Stored under roof
Sodium Sulfite	Three 5 gallon buckets	
Soda Ash	Two 50# bags	

- 14. Site Inspection:** Performed by Beth Biller – DEQ Compliance on 28 April 2008.
See **Attachment 4** for a copy of the reconnaissance inspection report.

15. Receiving Stream Water Quality and Water Quality Standards:a. Ambient Water Quality Data

There is no ambient monitoring data available for the unnamed tributary to Maracossic Creek. The nearest DEQ monitoring station is 8-MAR014.20 on Maracossic Creek, located approximately 5.5 miles downstream of Outfall 001 at the Route 641 bridge.

Per the 2010 Integrated Report for this segment of Maracossic Creek; the aquatic life, recreation and wildlife uses are considered fully supporting. The fish consumption use was not assessed within this segment.

However, there are two impairments listed further downstream for segments of Maracossic Creek. Aquatic life use impairment begins approximately 11.5 miles downstream of Outfall 001 due to excursions below the lower limit of the pH criterion. The other impairment is for recreation use approximately 15.7 miles downstream due to excursions in *E. coli* bacteria criterion. The pH and bacteria TMDLs are due by 2014 and 2018, respectively. Even though this UT will not be specifically included in either TMDL, all upstream point sources will be considered.

It should also be noted that there are three other impairments listed further downstream from this facility:

A segment of the Mattaponi River, beginning approximately 23 miles downstream of the outfall, is listed with a fish consumption use impairment due to mercury in fish tissue. The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, mercury fish consumption advisory. The advisory, dated 13 December 2004, limits largemouth bass consumption to no more than two meals per month. The affected area extends from the Route 628 bridge and continues downstream approximately 40 miles to Melrose Landing at Route 602. Development of a plan of action is still on-going at the time of this Fact Sheet.

A segment of the Mattaponi River, beginning approximately 23 miles downstream of this facility, is listed with a PCB impairment. In support for the PCB TMDL that will be developed for the tidal Rappahannock River by 2022, this facility is a candidate for low-level PCB monitoring based upon its designation as a minor municipal facility. However, the Assessment/TMDL Staff has concluded that low-level PCB monitoring is not warranted for this facility since there are not and have not been any industrial activity or users at this facility.

There is a completed downstream TMDL for the nutrient impairments for the Chesapeake Bay. This facility has been included in the Bay TMDL implementation plan.

b. Receiving Stream Water Quality Criteria

Part IX of 9VAC25-260(360-550) designates classes and special standards applicable to defined Virginia river basins and sections. The receiving stream, Maracossic Creek, UT, is located within Section 03 of the York River Basin and designated as Class III water.

At all times, Class III waters must achieve a dissolved oxygen (D.O.) of 4.0 mg/L or greater, a daily average D.O. of 5.0 mg/L or greater, a temperature that does not exceed 32° C and maintain a pH of 6.0 – 9.0 standard units (S.U.).

Attachment 5 details other water quality criteria applicable to the receiving stream.

Ammonia:

The critical 30Q10 and 1Q10 flows of the receiving stream have been determined to be 0.0 MGD. In cases such as this, effluent pH and temperature data may be used to establish the ammonia water quality standard. Effluent pH data from June 2005 to January 2011 produced a 90th percentile value of 7.6 S.U. Data can be found in the reissuance file. Staff utilized a default temperature of 25° C and an assumed 15° C for the summer and winter values, respectively, since effluent temperature data was not available.

The ammonia water quality standards calculations are shown in **Attachment 5**.

Metals Criteria:

The Water Quality Criteria for some metals are dependent on the receiving stream’s hardness (expressed as mg/L calcium carbonate). The 7Q10 for the receiving stream is 0.0 MGD and there is no effluent hardness data for this facility. Staff guidance suggests using a default hardness value of 50 mg/L CaCO₃ for streams east of the Blue Ridge.

The hardness-dependent metals criteria shown in **Attachment 5** are based on this value.

Bacteria Criteria:

The Virginia Water Quality Standards (9VAC25-260-170.A.) establishes the following criteria to protect primary contact recreational uses:

E. coli bacteria per 100 mL of water shall not exceed the following:

	Monthly Geometric Mean ¹
Freshwater <i>E. coli</i> (N/100 mL)	126

¹Four or more samples taken during any calendar month

c. Receiving Stream Special Standards

The State Water Control Board's Water Quality Standards, River Basin Section Tables (9VAC25-260-360, 370 and 380) designates the river basins, sections, classes and special standards for surface waters of the Commonwealth of Virginia. The receiving stream, Maracossic Creek, UT, is located within Section 03 of the York River Basin. This section has not been designated with a special standard.

d. Threatened or Endangered Species

The Virginia DGIF Fish and Wildlife Information System Database was researched on 7 March 2011 for records to determine if there are threatened or endangered species in the vicinity of the discharge. The following threatened species were identified within a 2 mile radius of the discharge: Upland Sandpiper (song bird); Loggerhead Shrike (song bird); Bachman’s Sparrow; Bald Eagle; and Migrant Loggerhead Shrike (song bird). The limits proposed in this draft permit are protective of the Virginia Water Quality Standards; therefore, protect the threatened species found near the discharge.

16. Antidegradation (9VAC25-260-30):

All state surface waters are provided one of three levels of antidegradation protection. For Tier 1 or existing use protection, existing uses of the water body and the water quality to protect these uses must be maintained. Tier 2 water bodies have water quality that is better than the water quality standards. Significant lowering of the water quality of Tier 2 waters is not allowed without an evaluation of the economic and social impacts. Tier 3 water bodies are exceptional waters and are so designated by regulatory amendment. The antidegradation policy prohibits new or expanded discharges into exceptional waters.

The receiving stream has been classified as Tier 1 based on the critical 7Q10, 30Q10 and 1Q10 flows of 0.0 MGD determination since the discharge enters a marsh/swamp area. The proposed limitations have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria that are applicable to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses.

17. Effluent Screening, Wasteload Allocation, and Effluent Limitation Development:

To determine water quality-based effluent limitations for a discharge, the suitability of data must first be determined. Data is suitable for analysis if one or more representative data points are equal to or above the quantification level ("QL") and the data represent the exact pollutant being evaluated.

Next, the appropriate Water Quality Standards (WQS) are determined for the pollutants in the effluent. Then, the Wasteload Allocations (WLAs) are calculated. In this case since the critical flows 7Q10, 30Q10 and 1Q10 have been determined to be zero, the WLAs are equal to the WQS. The WLA values are then compared with available effluent data to determine the need for effluent limitations. Effluent limitations are needed if the 97th percentile of the daily effluent concentration values is greater than the acute wasteload allocation or if the 97th percentile of the four-day average effluent concentration values is greater than the chronic wasteload allocation. Effluent limitations are based on the most limiting WLA, the required sampling frequency and statistical characteristics of the effluent data.

a. Effluent Screening

Effluent data obtained from Discharge Monitoring Reports (DMRs) for the last permit term has been reviewed and determined to be suitable for evaluation.

The following pollutants require a wasteload allocation analysis: Ammonia and Total Residual Chlorine.

b. Mixing Zones and Wasteload Allocations (WLAs)

Wasteload Allocations (WLAs) are calculated for those parameters in the effluent with the reasonable potential to cause an exceedance of water quality criteria. The basic calculation for establishing a WLA is the steady state complete mix equation:

$$WLA = \frac{C_o [Q_e + (f) (Q_s)] - [(C_s) (f) (Q_s)]}{Q_e}$$

Where:

- WLA = Wasteload allocation
- C_o = In-stream water quality criteria
- Q_e = Design flow
- Q_s = Critical receiving stream flow
(1Q10 for acute aquatic life criteria; 7Q10 for chronic aquatic life criteria; harmonic mean for carcinogen-human health criteria; 30Q10 for ammonia criteria; and 30Q5 for non-carcinogen human health criteria)
- f = Decimal fraction of critical flow
- C_s = Mean background concentration of parameter in the receiving stream.

The water segment receiving the discharge via Outfall 001 is considered to have a 7Q10, 30Q10 and 1Q10 of 0.0 MGD. As such, there is no mixing zone and the WLA is equal to the C_o.

c. Effluent Limitations, Outfall 001 – Toxic Pollutants

9VAC25-31-220.D. requires limits be imposed where a discharge has a reasonable potential to cause or contribute to an in-stream excursion of water quality criteria. Those parameters with WLAs that are near effluent concentrations are evaluated for limits.

The VPDES Permit Regulation at 9VAC25-31-230.D. requires that monthly and weekly average limitations be imposed for continuous discharges from POTWs and monthly average and daily maximum limitations be imposed for all other continuous non-POTW discharges.

1). Ammonia as N/TKN:

The VPDES Permit Manual recommends a TKN limit of 3.0 mg/L for municipal treatment facilities discharging into swamp and marsh waters. A TKN limit of 3.0 mg/L assumes that the remaining nitrogen is in the form of refractory organic compounds that will not be easily oxidized and that the resulting ammonia concentration is generally less than 1 mg/L. Therefore, a limitation for Ammonia is not necessary.

2). Total Residual Chlorine:

Chlorine is used for disinfection and is potentially in the discharge. Staff calculated WLAs for TRC using current critical flows. In accordance with current DEQ guidance, staff used a default data point of 0.2 mg/L and the calculated WLAs to derive limits. A monthly average of 0.008 mg/L and a weekly average limit of 0.010 mg/L are proposed for this discharge (see **Attachment 6**).

3). Metals/Organics:

It is staff's best professional judgement, based on the source(s) of the wastewater, limits are not warranted.

d. Effluent Limitations and Monitoring, Outfall 001 – Conventional and Non-Conventional Pollutants

No changes to Dissolved Oxygen (D.O.), carbonaceous-Biochemical Oxygen Demand-5 day (cBOD₅), Total Suspended Solids (TSS) and pH limitations are proposed.

The cBOD₅ and D.O. limitations reflect those recommendations set forth in the VPDES Permit Manual for discharges into swamp and marsh waters where the discharge and receiving stream cannot be easily modeled.

It is staff's practice to equate the Total Suspended Solids limits with the cBOD₅ limits since the two pollutants are closely related in terms of treatment of domestic sewage.

pH limitations are set at the water quality criteria.

E. coli limitations are in accordance with the Water Quality Standards 9VAC25-260-170.

e. Effluent Annual Average Limitations and Monitoring, Outfall 001 – Nutrients

Monthly average Total Phosphorus limitations are based on staff's best professional judgment. It is staff's experience that sewage treatment plant discharges without phosphorus controls will cause algal blooms in marsh and swamp waters. It is staff's experience that a limit of 2.0 mg/L will provide sufficient control on phosphorus to avoid nuisance algal blooms.

f. Effluent Limitations and Monitoring Summary

The effluent limitations are presented in the following table. Limits were established for cBOD₅, Total Suspended Solids, TKN, pH, Dissolved Oxygen, Total Phosphorus, Total Residual Chlorine and *E. coli*.

The limit for Total Suspended Solids is based on Best Professional Judgement.

The mass loading (kg/d) for monthly and weekly averages were calculated by multiplying the concentration values (mg/L), with the flow values (in MGD) and then a conversion factor of 3.785.

Sample Type and Frequency are in accordance with the recommendations in the VPDES Permit Manual.

The VPDES Permit Regulation 9VAC25-31-30 and 40 CFR Part 133 require that the facility achieve at least 85% removal for BOD/cBOD and TSS (or 65% for equivalent to secondary). During the last permit term, this facility conducted influent monitoring that indicated the minimum removal rate was being achieved.

18. Antibalancing:

All limits in this permit are at least as stringent as those previously establish. Backsliding does not apply to this reissuance.

19. Effluent Limitations/Monitoring Requirements:

Design flow is 0.005 MGD.

Effective Dates: During the period beginning with the permit effective date and lasting until the permit expiration date.

PARAMETER	BASIS FOR LIMITS	DISCHARGE LIMITATIONS				MONITORING REQUIREMENTS	
		Monthly Average	Weekly Average	Minimum	Maximum	Frequency	Sample Type
Flow (MGD)	NA	NL	NA	NA	NL	1/D	Estimate
pH	3	NA	NA	6.0 S.U.	9.0 S.U.	1/D	Grab
cBOD ₅	5	10 mg/L 0.19 kg/day	15 mg/L 0.28 kg/day	NA	NA	1/M	Grab
Total Suspended Solids (TSS)	2	10 mg/L 0.19 kg/day	15 mg/L 0.28 kg/day	NA	NA	1/M	Grab
Dissolved Oxygen (DO)	3,5	NA	NA	5.0 mg/L	NA	1/D	Grab
Total Kjeldahl Nitrogen (TKN)	5	3.0 mg/L 0.060 kg/day	4.5 mg/L 0.090 kg/day	NA	NA	1/M	Grab
Total Phosphorus	2,5	2.0 mg/L	NA	NA	NA	1/M	Grab
<i>E. coli</i> (Geometric Mean) ^{(a)(b)}	3	126 n/100 mL	NA	NA	NA	1/W	Grab
Total Residual Chlorine (after contact tank)	4	NA	NA	1.0 mg/L	NA	1/D	Grab
Total Residual Chlorine (after dechlorination)	3	0.008 mg/L	0.010 mg/L	NA	NA	1/D	Grab

The basis for the limitations codes are:

- | | | |
|----------------------------------|---|--------------------------------|
| 1. Federal Effluent Requirements | <i>MGD</i> = Million gallons per day. | <i>1/D</i> = Once every day. |
| 2. Best Professional Judgement | <i>NA</i> = Not applicable. | <i>1/W</i> = Once every week. |
| 3. Water Quality Standards | <i>NL</i> = No limit; monitor and report. | <i>1/M</i> = Once every month. |
| 4. DEQ Disinfection Guidance | <i>S.U.</i> = Standard units. | |
| 5. VPDES Permit Manual | | |

Estimate = Reported flow is to be based on the technical evaluation of the sources contributing to the discharge.

Grab = An individual sample collected over a period of time not to exceed 15-minutes.

^(a) Samples shall be collected between the hours of 10 A.M. and 4 P.M.

^(b) The permittee shall sample and submit *E. coli* results at the frequency of once every week for three (3) months.

If all reported results for *E. coli* do not exceed 126 n/100mL, reported as the geometric mean, the permittee may submit a written request to DEQ-NRO for a reduction in the sampling frequency to once per quarter.

Upon approval, the permittee shall collect four (4) samples during one month within each quarterly monitoring period as defined below. The results shall be reported as the geometric mean.

The quarterly monitoring periods shall be January through March, April through June, July through September and October through December. The DMR shall be submitted no later than the 10th day of the month following the monitoring period.

Should any of the quarterly monitoring results for *E. coli* exceed 126 n/100mL, reported as the geometric mean, the monitoring frequency shall revert to once per week for the remainder of the permit term.

20. Other Permit Requirements:

Part I.B. of the permit contains additional chlorine monitoring requirements, quantification levels and compliance reporting instructions.

These additional chlorine requirements are necessary per the Sewage Collection and Treatment Regulations at 9VAC25-70 and by the Water Quality Standards at 9VAC25-260-170. Minimum chlorine residual must be maintained at the exit of the chlorine contact tank to ensure adequate disinfection. No more than 10% of the monthly test results for TRC at the exit of the chlorine contact tank shall be < 1.0 mg/L with any TRC < 0.6 mg/L considered a system failure. *E. coli* limits are defined in this section as well as monitoring requirements to take effect should an alternate means of disinfection be used.

21. Other Special Conditions:

- a. 95% Capacity Reopener. The VPDES Permit Regulation at 9VAC25-31-200.B.4. requires all POTWs and PVOTWs develop and submit a plan of action to DEQ when the monthly average influent flow to their sewage treatment plant reaches 95% or more of the design capacity authorized in the permit for each month of any three consecutive month period. The facility is a PVOTW.
- b. Indirect Dischargers. Required by VPDES Permit Regulation, 9VAC25-31-200 B.1. and B.2. for POTWs and PVOTWs that receive waste from someone other than the owner of the treatment works.
- c. O&M Manual Requirement. Required by Code of Virginia §62.1-44.19; Sewage Collection and Treatment Regulations, 9VAC25-790; VPDES Permit Regulation, 9VAC25-31-190.E. On or before 9 September 2011, the permittee shall submit for approval an Operations and Maintenance (O&M) Manual or a statement confirming the accuracy and completeness of the current O&M Manual to the Department of Environmental Quality, Northern Regional Office (DEQ-NRO). Future changes to the facility must be addressed by the submittal of a revised O&M Manual within 90 days of the changes. Non-compliance with the O&M Manual shall be deemed a violation of the permit.
- d. CTC, CTO Requirement. The Code of Virginia § 62.1-44.19; Sewage Collection and Treatment Regulations, 9VAC25-790 requires that all treatment works treating wastewater obtain a Certificate to Construct prior to commencing construction and to obtain a Certificate to Operate prior to commencing operation of the treatment works.
- e. Financial Assurance. Required by Code of Virginia §62.1-44.18:3 and the Board's Financial Assurance Regulation, 9VAC25-650-1, et seq. which requires owners and operators of PVOTWs with a design flow > 0.005 MGD but < 0.040 MGD and treating sewage from private residences to submit a closure plan and maintain adequate financial assurance in the event the facility ceases operations. This permitted facility is a PVOTW with a design flow of 0.005 MGD.
- f. Licensed Operator Requirement. The Code of Virginia at §54.1-2300 et seq. and the VPDES Permit Regulation at 9VAC25-31-200.C., and Rules and Regulations for Waterworks and Wastewater Works Operators (18VAC160-20-10 et seq.) requires licensure of operators. This facility requires a Class III operator.
- g. Reliability Class. The Sewage Collection and Treatment Regulations at 9VAC25-790 require sewage treatment works to achieve a certain level of reliability in order to protect water quality and public health consequences in the event of component or system failure. Reliability means a measure of the ability of the treatment works to perform its designated function without failure or interruption of service. The facility is required to meet reliability Class II.
- h. Sludge Reopener. The VPDES Permit Regulation at 9VAC25-31-220.C. requires all permits issued to treatment works treating domestic sewage (including sludge-only facilities) include a reopener clause allowing incorporation of any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the CWA. The facility includes a sewage treatment works.
- i. Sludge Use and Disposal. The VPDES Permit Regulation at 9VAC25-31-100.P; 220.B.2., and 420 through 720, and 40 CFR Part 503 require all treatment works treating domestic sewage to submit information on their sludge use and disposal practices and to meet specified standards for sludge use and disposal. The facility includes a treatment works treating domestic sewage.
- j. Treatment Works Closure Plan. The State Water Control Law §62.1-44.15:1.1, makes it illegal for an owner to cease operation and fail to implement a closure plan when failure to implement the plan would result in harm to human health or the environment. This condition is used to notify the owner of the need for a closure plan where a facility is being replaced or is expected to close.
- k. TMDL Reopener. This special condition is to allow the permit to be reopened if necessary to bring it into compliance with any applicable TMDL that may be developed and approved for the receiving stream.

- 22. Permit Section Part II.** Part II of the permit contains standard conditions that appear in all VPDES Permits. In general, these standard conditions address the responsibilities of the permittee, reporting requirements, testing procedures and records retention.

Fact Sheet Attachments

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Hill Mobile Home Park STP #2
VA0090689
2011 Reissuance

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MEMORANDUM

**DEPARTMENT OF ENVIRONMENTAL QUALITY
Office of Water Quality Assessments
629 East Main Street P.O. Box 10009 Richmond, Virginia 23219**

SUBJECT: Flow Frequency Determination
Hill Mobile Home Park – #VA0082911

TO: James Olson, NRO

FROM: Paul E. Herman, P.E., WQAP

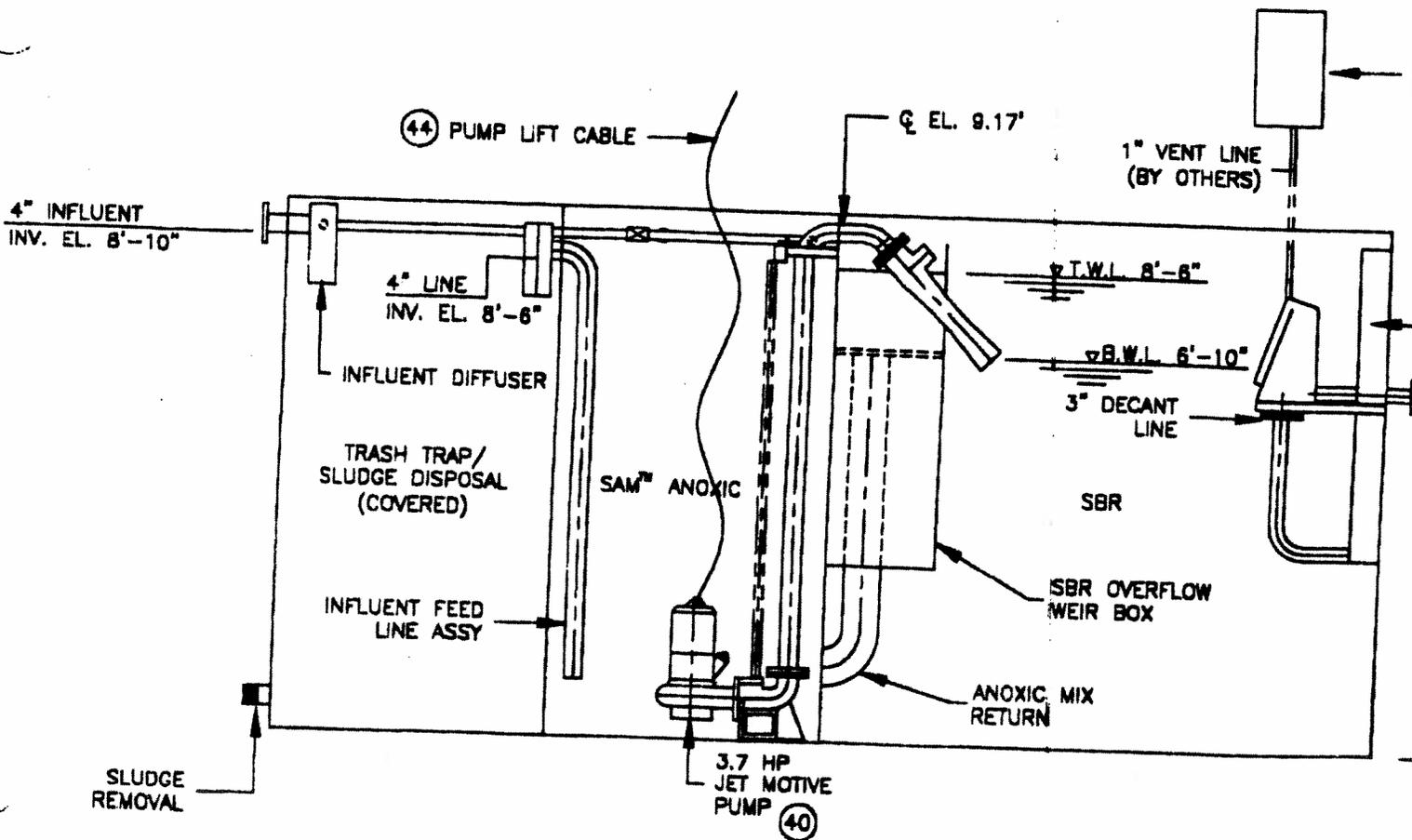
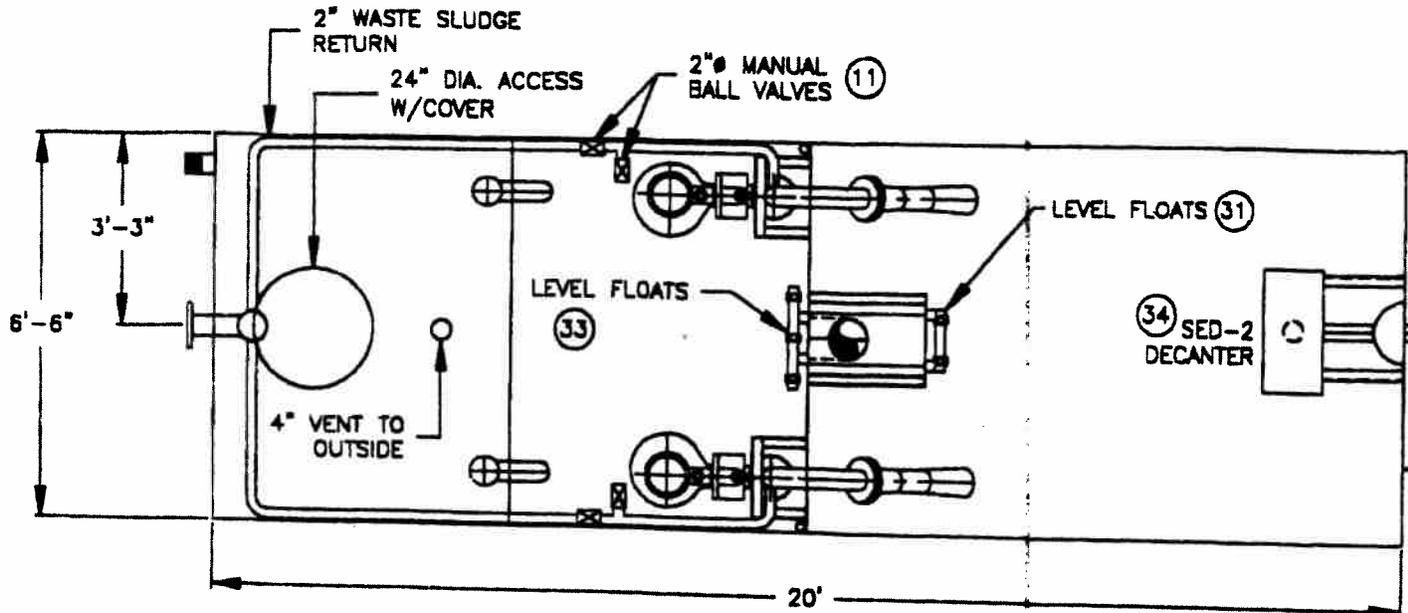
DATE: December 1, 2000

COPIES: Ron Gregory, Charles Martin, File

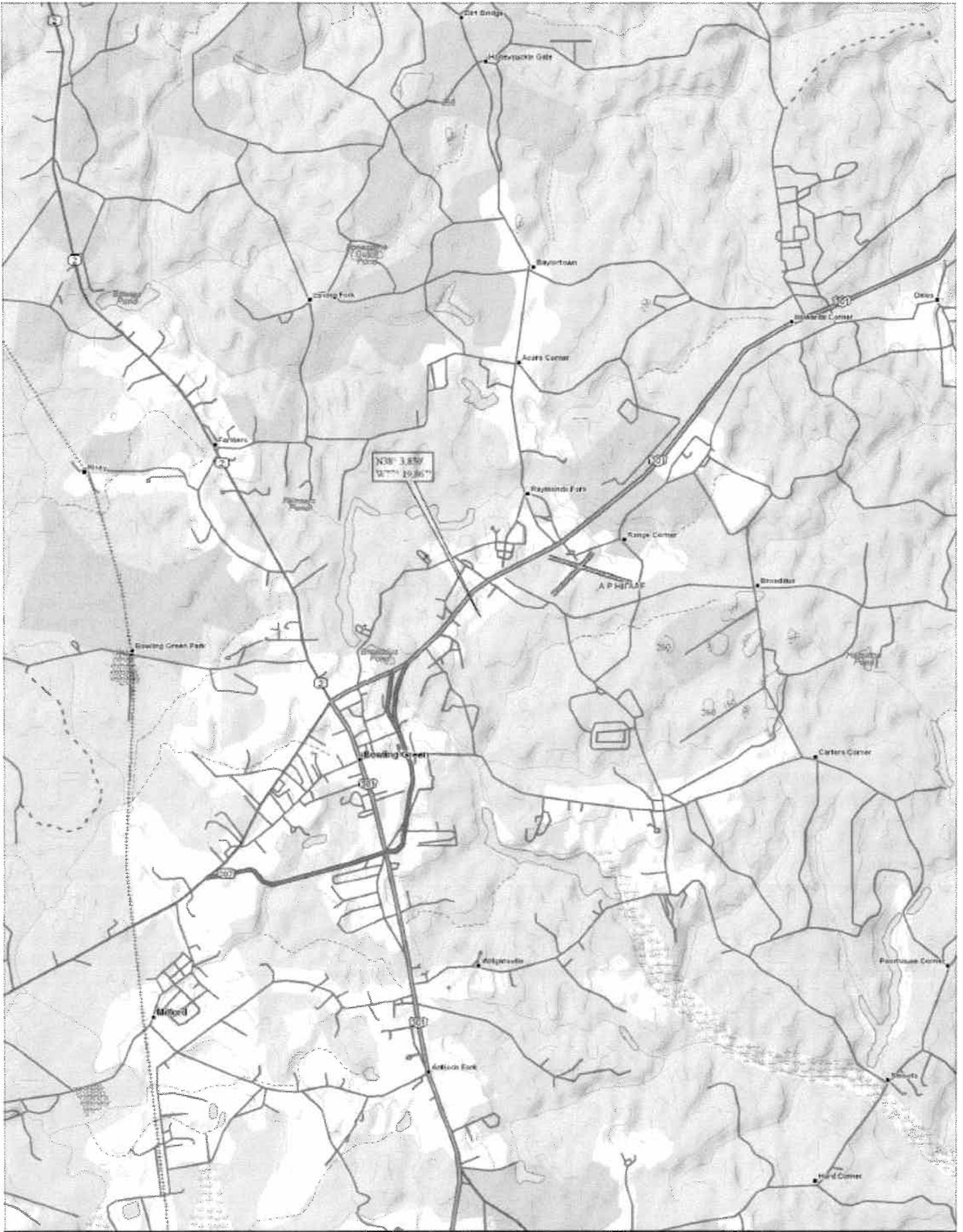
The Hill Mobile Home Park discharges to an unnamed tributary of the Maracossic Creek near Bowling Green, VA. Stream flow frequencies are required at these sites for use by the permit writer in developing effluent limitations for the VPDES permit.

The flow frequencies for the discharge point are based on a review of the USGS Bowling Green Quadrangle topographic map. The outfall is shown to enter an intermittent stream that drains to a swamp. The flow frequencies for an intermittent stream or a swamp are 0.0 cfs for the 1Q10, 7Q10, 30Q5, high flow 1Q10, high flow 7Q10, and harmonic mean.

If you have any questions concerning this analysis, please let me know.



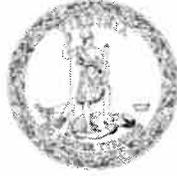
HMHP STP #2 SBR.



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COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

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Preston Bryant
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

May 19, 2008

Mr. Jimmy Benson
SMG, LLC
PO Box 70367
Richmond, VA 23255

Re: Hill Mobile Home Park #2 STP – VA0090689

Dear Mr. Benson:

Attached is a copy of the site inspection report generated while conducting a Recon Inspection at the Hill Mobile Home Park – Sewage Treatment Plant (STP) on April 28, 2008.

If you have any questions or comments concerning this report, please feel free to contact me at the Northern Regional Office at (703) 583-3896 or by email at eabiller@deq.virginia.gov.

Sincerely,

A handwritten signature in cursive script that reads 'Beth Biller'.

Beth Biller
Environmental Specialist II

cc: Permit/DMR File
Compliance Manager
Compliance Auditor
Mike Cook - TetraOps – via e-mail



NORTHERN REGIONAL OFFICE
13901 CROWN COURT, WOODBRIDGE, VA. 22193
PHONE: (703) 583-3800 FAX: (703) 583-3871

SITE INSPECTION REPORT

FACILITY NAME:	Hill Mobile Home Park STP				
PERMIT NUMBER:	VA0090689	INSPECTION DATE:	4/28/08	REPORT DATE:	5/19/08
INSPECTOR:	Beth Biller	REVIEWER	Ed Stuart	DATE	5/19/08
PRESENT AT INSPECTION:					

Inspection Type:

<input type="checkbox"/>	Compliance	WL/NOV#:	<input type="checkbox"/>	Announced
<input type="checkbox"/>	Sampling		<input type="checkbox"/>	Scheduled
<input checked="" type="checkbox"/>	Other:	Recon		

Observation Section:

- ▶ Arrived on-site @ 1030.
- ▶ Operator was not onsite – all treatment units were locked.
- ▶ There was no discharge at the time of inspection.
- ▶ SBR was in Fill/React cycle – color was light grey.
- ▶ There was a strong musty odor around the plant.
- ▶ The outfall is becoming overgrown with brush.
- ▶ Departed site @ 1045.

PHOTOGRAPH LOG

- ▶ Photos are located @ U:\\PHOTOS\\Water Facilities\\Hill MHP STP 4-28-08.

Compliance Section:

DMR ISSUE(S): **None**

INSPECTION ISSUE(S):

Access to the outfall pipe needs to be maintained – brush and shrubs should be cutback as necessary.

CAUSE OF ISSUE(S):

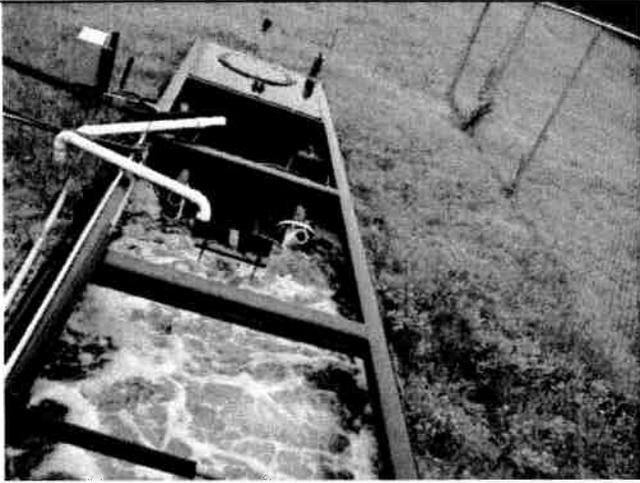
Brush is becoming overgrown around the outfall.

CORRECTIVE ACTION(S) TAKEN:

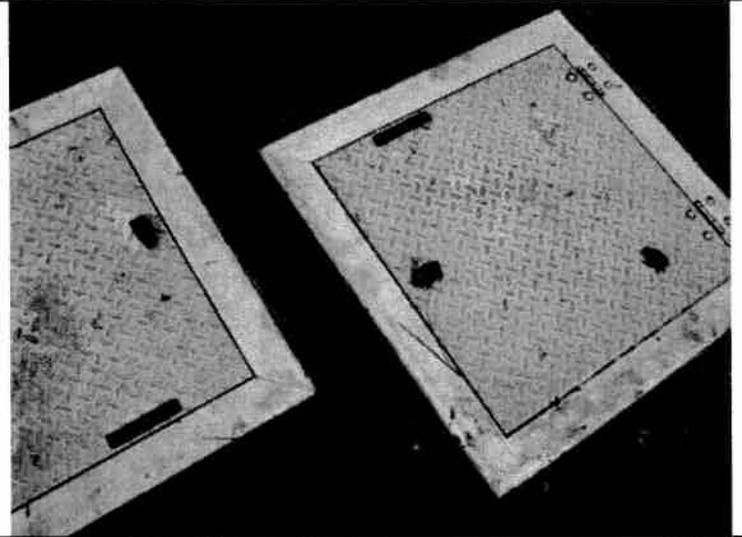
COMPLIANCE AUDITING ASSESSMENT:

Sampling Section:

Samples were not collected at the time of inspection.



1) Overview of SBR



2) Chlorination/Dechlorination



3) Outfall



4) Close up of Outfall pipe

**Hill MHP STP
Site Visit
Photos & Layout by: Beth Biller**

**VA0090689
April 28, 2008
Page 1 of 1**

FRESHWATER WATER QUALITY CRITERIA / WASTELOAD ALLOCATION ANALYSIS

Permit No.: VA0090689

Facility Name: Hill MHP STP

Version: OWP Guidance Memo 00-2011 (8/24/00)

Receiving Stream: Maracossic Creek, UT

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria			Wasteload Allocations			Antidegradation Baseline			Antidegradation Allocations			Most Limiting Allocations			Effluent Information																
		Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Acute	Chronic	HH (PWS)	Mean Hardness (as CaCO3) =	90% Temp (Annual) =	90% Temp (Wet season) =	90% Maximum pH =	10% Maximum pH =	Discharge Flow =								
																										HH	HH	HH	HH	HH	HH	HH	HH
Acenaphthene	0	--	--	na	9.9E+02	na	9.9E+02	--	--	--	--	--	--	--	--	--	--	--	na	9.9E+02	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Acrolein	0	--	--	na	9.9E+00	na	9.9E+00	--	--	--	--	--	--	--	--	--	--	--	na	9.9E+00	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Acrylonitrile ^C	0	--	--	na	2.5E+00	na	2.5E+00	--	--	--	--	--	--	--	--	--	--	--	na	2.5E+00	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Aldrin ^C	0	3.0E+00	--	na	5.0E-04	na	5.0E-04	3.0E+00	--	--	--	--	--	--	--	--	--	--	na	5.0E-04	3.0E+00	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Ammonia-N (mg/l)	0	1.70E+01	2.02E+00	na	--	na	2.0E+00	1.7E+01	2.0E+00	na	--	--	--	--	--	--	--	--	na	2.0E+00	1.7E+01	2.0E+00	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Ammonia-N (mg/l) (High Flow)	0	1.70E+01	3.85E+00	na	--	na	3.9E+00	1.7E+01	3.9E+00	na	--	--	--	--	--	--	--	--	na	3.9E+00	1.7E+01	3.9E+00	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Anthracene	0	--	--	na	4.0E+04	na	4.0E+04	--	--	--	--	--	--	--	--	--	--	--	na	4.0E+04	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Antimony	0	--	--	na	6.4E+02	na	6.4E+02	--	--	--	--	--	--	--	--	--	--	--	na	6.4E+02	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Arsenic	0	3.4E+02	1.5E+02	na	--	na	1.5E+02	3.4E+02	1.5E+02	na	--	--	--	--	--	--	--	--	na	1.5E+02	3.4E+02	1.5E+02	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Barium	0	--	--	na	--	na	--	--	--	na	9.9E+02	--	--	--	--	--	--	--	na	9.9E+02	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Benzene ^C	0	--	--	na	5.1E+02	na	5.1E+02	--	--	na	5.1E+02	--	--	--	--	--	--	--	na	5.1E+02	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Benzidine ^C	0	--	--	na	2.0E-03	na	2.0E-03	--	--	na	2.0E-03	--	--	--	--	--	--	--	na	2.0E-03	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Benzo (a) anthracene ^C	0	--	--	na	1.8E-01	na	1.8E-01	--	--	na	1.8E-01	--	--	--	--	--	--	--	na	1.8E-01	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Benzo (b) fluoranthene ^C	0	--	--	na	1.8E-01	na	1.8E-01	--	--	na	1.8E-01	--	--	--	--	--	--	--	na	1.8E-01	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Benzo (k) fluoranthene ^C	0	--	--	na	1.8E-01	na	1.8E-01	--	--	na	1.8E-01	--	--	--	--	--	--	--	na	1.8E-01	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Benzo (a) pyrene ^C	0	--	--	na	1.8E-01	na	1.8E-01	--	--	na	1.8E-01	--	--	--	--	--	--	--	na	1.8E-01	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Bis(2-Chloroethyl) Ether ^C	0	--	--	na	5.3E+00	na	5.3E+00	--	--	na	5.3E+00	--	--	--	--	--	--	--	na	5.3E+00	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Bis(2-Chloroisopropyl) Ether	0	--	--	na	6.5E+04	na	6.5E+04	--	--	na	6.5E+04	--	--	--	--	--	--	--	na	6.5E+04	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Bis(2-Ethylhexyl) Phthalate ^C	0	--	--	na	2.2E+01	na	2.2E+01	--	--	na	2.2E+01	--	--	--	--	--	--	--	na	2.2E+01	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Bromoforn ^C	0	--	--	na	1.4E+03	na	1.4E+03	--	--	na	1.4E+03	--	--	--	--	--	--	--	na	1.4E+03	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Butylbenzylphthalate	0	--	--	na	1.9E+03	na	1.9E+03	--	--	na	1.9E+03	--	--	--	--	--	--	--	na	1.9E+03	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Cadmium	0	1.8E+00	6.6E-01	na	--	na	6.6E-01	1.8E+00	6.6E-01	na	--	--	--	--	--	--	--	--	na	6.6E-01	1.8E+00	6.6E-01	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Carbon Tetrachloride ^C	0	--	--	na	1.6E+01	na	1.6E+01	--	--	na	1.6E+01	--	--	--	--	--	--	--	na	1.6E+01	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Chlordane ^C	0	2.4E+00	4.3E-03	na	8.1E-03	na	8.1E-03	2.4E+00	4.3E-03	na	8.1E-03	--	--	--	--	--	--	--	na	8.1E-03	2.4E+00	4.3E-03	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Chloride	0	8.6E+05	2.3E+05	na	--	na	2.3E+05	8.6E+05	2.3E+05	na	--	--	--	--	--	--	--	--	na	2.3E+05	8.6E+05	2.3E+05	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
TRC	0	1.9E+01	1.1E+01	na	--	na	1.1E+01	1.9E+01	1.1E+01	na	--	--	--	--	--	--	--	--	na	1.1E+01	1.9E+01	1.1E+01	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD
Chlorobenzene	0	--	--	na	1.6E+03	na	1.6E+03	--	--	na	1.6E+03	--	--	--	--	--	--	--	na	1.6E+03	--	--	--	50 mg/L	--	25 deg C	--	15 deg C	--	7.6 SU	--	7 SU	0.005 MGD

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria				Wasteload Allocations				Antidegradation Baseline				Antidegradation Allocations				Most Limiting Allocations							
		Acute		Chronic		HH (PWS)		HH		Acute		Chronic		HH (PWS)		HH		Acute		Chronic		HH (PWS)		HH	
Chlorodibromomethane ^c	0	--	--	na	1.3E+02	na	1.3E+02	na	1.3E+02	--	--	na	1.3E+02	--	--	na	1.3E+02	--	--	na	1.3E+02	--	--	na	1.3E+02
Chloroform	0	--	--	na	1.1E+04	na	1.1E+04	na	1.1E+04	--	--	na	1.1E+04	--	--	na	1.1E+04	--	--	na	1.1E+04	--	--	na	1.1E+04
2-Chloronaphthalene	0	--	--	na	1.6E+03	na	1.6E+03	na	1.6E+03	--	--	na	1.6E+03	--	--	na	1.6E+03	--	--	na	1.6E+03	--	--	na	1.6E+03
2-Chlorophenol	0	--	--	na	1.5E+02	na	1.5E+02	na	1.5E+02	--	--	na	1.5E+02	--	--	na	1.5E+02	--	--	na	1.5E+02	--	--	na	1.5E+02
Chlorpyrifos	0	8.3E-02	4.1E-02	na	--	8.3E-02	4.1E-02	na	--	8.3E-02	4.1E-02	na	--	8.3E-02	4.1E-02	na	--	8.3E-02	4.1E-02	na	--	8.3E-02	4.1E-02	na	--
Chromium III	0	3.2E+02	4.2E+01	na	--	3.2E+02	4.2E+01	na	--	3.2E+02	4.2E+01	na	--	3.2E+02	4.2E+01	na	--	3.2E+02	4.2E+01	na	--	3.2E+02	4.2E+01	na	--
Chromium VI	0	1.6E+01	1.1E+01	na	--	1.6E+01	1.1E+01	na	--	1.6E+01	1.1E+01	na	--	1.6E+01	1.1E+01	na	--	1.6E+01	1.1E+01	na	--	1.6E+01	1.1E+01	na	--
Chromium, Total	0	--	--	1.0E+02	--	--	--	na	--	--	--	na	--	--	--	na	--	--	--	na	--	--	--	na	--
Chrysene ^c	0	7.0E+00	5.0E+00	na	1.8E-02	7.0E+00	5.0E+00	na	1.8E-02	7.0E+00	5.0E+00	na	1.8E-02	7.0E+00	5.0E+00	na	1.8E-02	7.0E+00	5.0E+00	na	1.8E-02	7.0E+00	5.0E+00	na	1.8E-02
Copper	0	2.2E+01	5.2E+00	na	1.6E+04	2.2E+01	5.2E+00	na	1.6E+04	2.2E+01	5.2E+00	na	1.6E+04	2.2E+01	5.2E+00	na	1.6E+04	2.2E+01	5.2E+00	na	1.6E+04	2.2E+01	5.2E+00	na	1.6E+04
Cyanide, Free	0	--	--	na	3.1E-03	--	--	na	3.1E-03	--	--	na	3.1E-03	--	--	na	3.1E-03	--	--	na	3.1E-03	--	--	na	3.1E-03
DDD ^c	0	--	--	na	2.2E-03	--	--	na	2.2E-03	--	--	na	2.2E-03	--	--	na	2.2E-03	--	--	na	2.2E-03	--	--	na	2.2E-03
DDE ^c	0	1.1E+00	1.0E-03	na	2.2E-03	1.1E+00	1.0E-03	na	2.2E-03	1.1E+00	1.0E-03	na	2.2E-03	1.1E+00	1.0E-03	na	2.2E-03	1.1E+00	1.0E-03	na	2.2E-03	1.1E+00	1.0E-03	na	2.2E-03
DDT ^c	0	--	--	1.0E-01	--	--	--	na	--	--	--	na	--	--	--	na	--	--	--	na	--	--	--	na	--
Demeton	0	1.7E-01	1.7E-01	na	--	1.7E-01	1.7E-01	na	--	1.7E-01	1.7E-01	na	--	1.7E-01	1.7E-01	na	--	1.7E-01	1.7E-01	na	--	1.7E-01	1.7E-01	na	--
Diazinon	0	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01
Dibenz(a,h)anthracene ^c	0	--	--	na	1.3E+03	--	--	na	1.3E+03	--	--	na	1.3E+03	--	--	na	1.3E+03	--	--	na	1.3E+03	--	--	na	1.3E+03
1,2-Dichlorobenzene	0	--	--	na	9.6E+02	--	--	na	9.6E+02	--	--	na	9.6E+02	--	--	na	9.6E+02	--	--	na	9.6E+02	--	--	na	9.6E+02
1,3-Dichlorobenzene	0	--	--	na	1.9E+02	--	--	na	1.9E+02	--	--	na	1.9E+02	--	--	na	1.9E+02	--	--	na	1.9E+02	--	--	na	1.9E+02
1,4-Dichlorobenzene	0	--	--	na	2.8E-01	--	--	na	2.8E-01	--	--	na	2.8E-01	--	--	na	2.8E-01	--	--	na	2.8E-01	--	--	na	2.8E-01
3,3-Dichlorobenzidine ^c	0	--	--	na	1.7E+02	--	--	na	1.7E+02	--	--	na	1.7E+02	--	--	na	1.7E+02	--	--	na	1.7E+02	--	--	na	1.7E+02
Dichlorobromomethane ^c	0	--	--	na	3.7E+02	--	--	na	3.7E+02	--	--	na	3.7E+02	--	--	na	3.7E+02	--	--	na	3.7E+02	--	--	na	3.7E+02
1,2-Dichloroethane ^c	0	--	--	na	7.1E+03	--	--	na	7.1E+03	--	--	na	7.1E+03	--	--	na	7.1E+03	--	--	na	7.1E+03	--	--	na	7.1E+03
1,1-Dichloroethylene	0	--	--	na	1.0E+04	--	--	na	1.0E+04	--	--	na	1.0E+04	--	--	na	1.0E+04	--	--	na	1.0E+04	--	--	na	1.0E+04
1,2-trans-dichloroethylene	0	--	--	na	2.9E+02	--	--	na	2.9E+02	--	--	na	2.9E+02	--	--	na	2.9E+02	--	--	na	2.9E+02	--	--	na	2.9E+02
2,4-Dichlorophenol	0	--	--	na	1.5E+02	--	--	na	1.5E+02	--	--	na	1.5E+02	--	--	na	1.5E+02	--	--	na	1.5E+02	--	--	na	1.5E+02
2,4-Dichlorophenoxy acetic acid (2,4-D)	0	--	--	na	2.1E+02	--	--	na	2.1E+02	--	--	na	2.1E+02	--	--	na	2.1E+02	--	--	na	2.1E+02	--	--	na	2.1E+02
1,2-Dichloropropane ^c	0	2.4E-01	5.6E-02	na	5.4E-04	2.4E-01	5.6E-02	na	5.4E-04	2.4E-01	5.6E-02	na	5.4E-04	2.4E-01	5.6E-02	na	5.4E-04	2.4E-01	5.6E-02	na	5.4E-04	2.4E-01	5.6E-02	na	5.4E-04
1,3-Dichloropropene ^c	0	--	--	na	4.4E+04	--	--	na	4.4E+04	--	--	na	4.4E+04	--	--	na	4.4E+04	--	--	na	4.4E+04	--	--	na	4.4E+04
Dieldrin ^c	0	--	--	na	8.5E+02	--	--	na	8.5E+02	--	--	na	8.5E+02	--	--	na	8.5E+02	--	--	na	8.5E+02	--	--	na	8.5E+02
Diethyl Phthalate	0	--	--	na	1.1E+06	--	--	na	1.1E+06	--	--	na	1.1E+06	--	--	na	1.1E+06	--	--	na	1.1E+06	--	--	na	1.1E+06
2,4-Dimethylphenol	0	--	--	na	4.5E+03	--	--	na	4.5E+03	--	--	na	4.5E+03	--	--	na	4.5E+03	--	--	na	4.5E+03	--	--	na	4.5E+03
Dimethyl Phthalate	0	--	--	na	5.3E+03	--	--	na	5.3E+03	--	--	na	5.3E+03	--	--	na	5.3E+03	--	--	na	5.3E+03	--	--	na	5.3E+03
Di-n-Butyl Phthalate	0	--	--	na	2.8E+02	--	--	na	2.8E+02	--	--	na	2.8E+02	--	--	na	2.8E+02	--	--	na	2.8E+02	--	--	na	2.8E+02
2,4 Dinitrophenol	0	--	--	na	3.4E+01	--	--	na	3.4E+01	--	--	na	3.4E+01	--	--	na	3.4E+01	--	--	na	3.4E+01	--	--	na	3.4E+01
2-Methyl-4,6-Dinitrophenol	0	--	--	na	5.1E-08	--	--	na	5.1E-08	--	--	na	5.1E-08	--	--	na	5.1E-08	--	--	na	5.1E-08	--	--	na	5.1E-08
2,4-Dinitrotoluene ^c	0	--	--	na	2.0E+00	--	--	na	2.0E+00	--	--	na	2.0E+00	--	--	na	2.0E+00	--	--	na	2.0E+00	--	--	na	2.0E+00
Dioxin 2,3,7,8-tetrachlorodibenzo-p-dioxin	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01
1,2-Diphenylhydrazine ^c	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01
Alpha-Endosulfan	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01
Beta-Endosulfan	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01
Alpha + Beta Endosulfan	0	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01	2.2E-01	5.6E-02	na	8.9E+01
Endosulfan Sulfate	0	8.6E-02	3.6E-02	na	6.0E-02	8.6E-02	3.6E-02	na	6.0E-02	8.6E-02	3.6E-02	na	6.0E-02	8.6E-02	3.6E-02	na	6.0E-02	8.6E-02	3.6E-02	na	6.0E-02	8.6E-02	3.6E-02	na	6.0E-02
Endrin	0	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01
Endrin Aldehyde	0	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01	--	--	na	3.0E-01

Parameter (ug/l unless noted)	Background Conc.	Water Quality Criteria				Wastload Allocations				Antidegradation Baseline				Antidegradation Allocations				Most Limiting Allocations												
		Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH									
																						Acute	Chronic	HH (PWS)	HH	Acute	Chronic	HH (PWS)	HH	Acute
Ethylbenzene	0	--	--	na	2.1E+03	--	--	na	2.1E+03	--	--	--	--	--	--	--	--	--	--	--	na	2.1E+03	na	2.1E+03	--	--	na	2.1E+03		
Fluoranthene	0	--	--	na	1.4E+02	--	--	na	1.4E+02	--	--	--	--	--	--	--	--	--	--	--	--	na	1.4E+02	na	1.4E+02	--	--	na	1.4E+02	
Fluorene	0	--	--	na	5.3E+03	--	--	na	5.3E+03	--	--	--	--	--	--	--	--	--	--	--	--	na	5.3E+03	na	5.3E+03	--	--	na	5.3E+03	
Foaming Agents	0	--	--	na	--	--	--	na	--	--	--	--	--	--	--	--	--	--	--	--	--	na	--	na	--	--	na	--	--	
Guthion	0	--	1.0E-02	na	--	--	1.0E-02	na	--	--	1.0E-02	--	--	--	--	--	--	--	--	--	--	na	1.0E-02	na	1.0E-02	--	--	na	1.0E-02	
Heptachlor ^C	0	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	5.2E-01	3.8E-03	na	7.9E-04	
Heptachlor Epoxide ^C	0	5.2E-01	3.8E-03	na	3.9E-04	5.2E-01	3.8E-03	na	3.9E-04	5.2E-01	3.8E-03	na	3.9E-04	5.2E-01	3.8E-03	na	3.9E-04	5.2E-01	3.8E-03	na	3.9E-04	5.2E-01	3.8E-03	na	3.9E-04	5.2E-01	3.8E-03	na	3.9E-04	
Hexachlorobenzene ^C	0	--	--	na	2.9E-03	--	--	na	2.9E-03	--	--	--	--	--	--	--	--	--	--	--	--	na	2.9E-03	na	2.9E-03	--	--	na	2.9E-03	
Hexachlorobutadiene ^C	0	--	--	na	1.8E+02	--	--	na	1.8E+02	--	--	--	--	--	--	--	--	--	--	--	--	na	1.8E+02	na	1.8E+02	--	--	na	1.8E+02	
Hexachlorocyclohexane	0	--	--	na	4.9E-02	--	--	na	4.9E-02	--	--	--	--	--	--	--	--	--	--	--	--	na	4.9E-02	na	4.9E-02	--	--	na	4.9E-02	
Alpha-BHC ^C	0	--	--	na	1.7E-01	--	--	na	1.7E-01	--	--	--	--	--	--	--	--	--	--	--	--	na	1.7E-01	na	1.7E-01	--	--	na	1.7E-01	
Beta-BHC ^C	0	--	--	na	1.8E+00	9.5E-01	--	na	1.8E+00	9.5E-01	--	na	1.8E+00	9.5E-01	--	na	1.8E+00	9.5E-01	--	na	1.8E+00	9.5E-01	--	na	1.8E+00	9.5E-01	--	na	1.8E+00	
Hexachlorocyclohexane	0	--	--	na	1.1E+03	--	--	na	1.1E+03	--	--	--	--	--	--	--	--	--	--	--	--	na	1.1E+03	na	1.1E+03	--	--	na	1.1E+03	
Gamma-BHC ^C (Lindane)	0	--	--	na	3.3E+01	--	--	na	3.3E+01	--	--	--	--	--	--	--	--	--	--	--	--	na	3.3E+01	na	3.3E+01	--	--	na	3.3E+01	
Hexachlorocyclopentadiene	0	--	--	na	2.0E+00	--	2.0E+00	na	2.0E+00	--	2.0E+00	na	2.0E+00	--	2.0E+00	na	2.0E+00	--	2.0E+00	na	2.0E+00	--	2.0E+00	na	2.0E+00	--	2.0E+00	na	2.0E+00	
Hexachloroethane ^C	0	--	2.0E+00	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	--	--	na	1.8E-01	
Hydrogen Sulfide	0	--	--	na	9.6E+03	--	--	na	9.6E+03	--	--	--	--	--	--	--	--	--	--	--	--	na	9.6E+03	na	9.6E+03	--	--	na	9.6E+03	
Indeno (1,2,3-cd) pyrene ^C	0	--	0.0E+00	na	--	--	0.0E+00	na	--	--	0.0E+00	na	--	--	0.0E+00	na	--	--	0.0E+00	na	--	0.0E+00	--	0.0E+00	na	--	0.0E+00	na	--	0.0E+00
Iron	0	4.9E+01	5.6E+00	na	1.0E-01	4.9E+01	5.6E+00	na	1.0E-01	4.9E+01	5.6E+00	na	1.0E-01	4.9E+01	5.6E+00	na	1.0E-01	4.9E+01	5.6E+00	na	1.0E-01	4.9E+01	5.6E+00	na	1.0E-01	4.9E+01	5.6E+00	na	1.0E-01	4.9E+01
Isophorone ^C	0	--	--	na	7.7E-01	1.4E+00	7.7E-01	na	7.7E-01	1.4E+00	7.7E-01	na	7.7E-01	1.4E+00	7.7E-01	na	7.7E-01	1.4E+00	7.7E-01	na	7.7E-01	1.4E+00	7.7E-01	na	7.7E-01	1.4E+00	7.7E-01	na	7.7E-01	
Manganese	0	1.4E+00	7.7E-01	na	1.5E+03	1.4E+00	7.7E-01	na	1.5E+03	1.4E+00	7.7E-01	na	1.5E+03	1.4E+00	7.7E-01	na	1.5E+03	1.4E+00	7.7E-01	na	1.5E+03	1.4E+00	7.7E-01	na	1.5E+03	1.4E+00	7.7E-01	na	1.5E+03	
Mercury	0	--	--	na	5.9E+03	--	--	na	5.9E+03	--	--	na	5.9E+03	--	--	na	5.9E+03	--	--	na	5.9E+03	--	--	na	5.9E+03	--	--	na	5.9E+03	
Methyl Bromide	0	--	3.0E-02	na	--	--	3.0E-02	na	--	--	3.0E-02	na	--	--	3.0E-02	na	--	--	3.0E-02	na	--	3.0E-02	--	3.0E-02	na	--	3.0E-02	na	--	3.0E-02
Methylene Chloride ^C	0	1.0E+02	1.1E+01	na	4.6E+03	1.0E+02	1.1E+01	na	4.6E+03	1.0E+02	1.1E+01	na	4.6E+03	1.0E+02	1.1E+01	na	4.6E+03	1.0E+02	1.1E+01	na	4.6E+03	1.0E+02	1.1E+01	na	4.6E+03	1.0E+02	1.1E+01	na	4.6E+03	
Methoxychlor	0	--	0.0E+00	na	6.9E+02	--	--	na	6.9E+02	--	--	na	6.9E+02	--	--	na	6.9E+02	--	--	na	6.9E+02	--	--	na	6.9E+02	--	--	na	6.9E+02	
Mirex	0	--	0.0E+00	na	3.0E+01	--	--	na	3.0E+01	--	--	na	3.0E+01	--	--	na	3.0E+01	--	--	na	3.0E+01	--	--	na	3.0E+01	--	--	na	3.0E+01	
Nickel	0	2.8E+01	6.6E+00	na	5.1E+00	2.8E+01	6.6E+00	na	5.1E+00	2.8E+01	6.6E+00	na	5.1E+00	2.8E+01	6.6E+00	na	5.1E+00	2.8E+01	6.6E+00	na	5.1E+00	2.8E+01	6.6E+00	na	5.1E+00	2.8E+01	6.6E+00	na	5.1E+00	
N-Nitrosodimethylamine ^C	0	6.5E-02	1.3E-02	na	6.4E-04	6.5E-02	1.3E-02	na	6.4E-04	6.5E-02	1.3E-02	na	6.4E-04	6.5E-02	1.3E-02	na	6.4E-04	6.5E-02	1.3E-02	na	6.4E-04	6.5E-02	1.3E-02	na	6.4E-04	6.5E-02	1.3E-02	na	6.4E-04	
N-Nitrosodiphenylamine ^C	0	--	1.4E-02	na	3.0E+01	--	1.4E-02	na	3.0E+01	--	1.4E-02	na	3.0E+01	--	1.4E-02	na	3.0E+01	--	1.4E-02	na	3.0E+01	--	1.4E-02	na	3.0E+01	--	1.4E-02	na	3.0E+01	
N-Nitrosodi-n-propylamine ^C	0	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	
Nonylphenol	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Parathion	0	2.8E+01	6.6E+00	na	6.4E-04	2.8E+01	6.6E+00	na	6.4E-04	2.8E+01	6.6E+00	na	6.4E-04	2.8E+01	6.6E+00	na	6.4E-04	2.8E+01	6.6E+00	na	6.4E-04	2.8E+01	6.6E+00	na	6.4E-04	2.8E+01	6.6E+00	na	6.4E-04	
PCB Total ^C	0	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	8.7E+00	6.7E+00	na	8.6E+05	
Pentachlorophenol ^C	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Phenol	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Pyrene	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Radionuclides	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Gross Alpha Activity (pCi/L)	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Beta and Photon Activity (mrem/yr)	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Radium 226 + 228 (pCi/L)	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	
Uranium (ug/l)	0	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	--	6.6E+00	na	4.0E+03	

3/8/2011 4:48:20 PM

Facility = Hill MHP STP
Chemical = Chlorine
Chronic averaging period = 4
WLAa = 0.019
WLAc = 0.011
Q.L. = .1
samples/mo. = 28
samples/wk. = 7

Summary of Statistics:

observations = 1
Expected Value = 20
Variance = 144
C.V. = 0.6
97th percentile daily values = 48.6683
97th percentile 4 day average = 33.2758
97th percentile 30 day average = 24.1210
< Q.L. = 0
Model used = BPJ Assumptions, type 2 data

A limit is needed based on Chronic Toxicity
Maximum Daily Limit = 1.60883226245855E-02
Average Weekly limit = 9.8252545713861E-03
Average Monthly Limit = 8.02152773888032E-03

The data are:

20

Public Notice – Environmental Permit

PURPOSE OF NOTICE: To seek public comment on a draft permit from the Department of Environmental Quality that will allow the release of treated wastewater into a water body in Caroline County, Virginia.

PUBLIC COMMENT PERIOD: May 10, 2011 to 5:00 p.m. on June 8, 2011

PERMIT NAME: Virginia Pollutant Discharge Elimination System Permit – Wastewater issued by DEQ, under the authority of the State Water Control Board

APPLICANT NAME, ADDRESS AND PERMIT NUMBER: SMG LLC
5805 Staples Mill Road, Richmond, VA 23228
VA0090689

NAME AND ADDRESS OF FACILITY: Hill Mobile Home Park Sewage Treatment Plant
Lakewood Road & AP Hill Blvd., Bowling Green

PROJECT DESCRIPTION: SMG LLC has applied for a reissuance of a permit for the private Hill Mobile Home Park Sewage Treatment Plant. The applicant proposes to release treated sewage wastewaters from residential areas at a rate of 0.005 million gallons per day into a water body. Sludge from the treatment process will be hauled to the Caroline County Regional Wastewater Treatment Facility (VA0073504) for further treatment and final disposal. The facility proposes to release treated sewage in the Maracossic Creek, UT in Caroline County in the York watershed. A watershed is the land area drained by a river and its incoming streams. The permit will limit the following pollutants to amounts that protect water quality: pH, cBOD, TSS, DO, TKN, E. coli and Chlorine.

HOW TO COMMENT AND/OR REQUEST A PUBLIC HEARING: DEQ accepts comments and requests for public hearing by email, fax or postal mail. All comments and requests must be in writing and be received by DEQ during the comment period. Submittals must include the names, mailing addresses and telephone numbers of the commenter/requester and of all persons represented by the commenter/requester. A request for public hearing must also include: 1) The reason why a public hearing is requested. 2) A brief, informal statement regarding the nature and extent of the interest of the requester or of those represented by the requester, including how and to what extent such interest would be directly and adversely affected by the permit. 3) Specific references, where possible, to terms and conditions of the permit with suggested revisions. A public hearing may be held, including another comment period, if public response is significant, based on individual requests for a public hearing, and there are substantial, disputed issues relevant to the permit.

CONTACT FOR PUBLIC COMMENTS, DOCUMENT REQUESTS AND ADDITIONAL INFORMATION: The public may review the documents at the DEQ-Northern Regional Office by appointment, or may request electronic copies of the draft permit and fact sheet.

Name: Douglas Frasier
Address: DEQ-Northern Regional Office, 13901 Crown Court, Woodbridge, VA 22193
Phone: (703) 583-3873 email: Douglas.Frasier@deq.virginia.gov Fax: (703) 583-3821

**State “Transmittal Checklist” to Assist in Targeting
Municipal and Industrial Individual NPDES Draft Permits for Review**

Part I. State Draft Permit Submission Checklist

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Facility Name: Hill Mobile Home Park Sewage Treatment Plant
 NPDES Permit Number: VA0090689
 Permit Writer Name: Douglas Frasier
 Date: 1 April 2011

Major [] Minor [] Industrial [] Municipal []

I.A. Draft Permit Package Submittal Includes:

	Yes	No	N/A
1. Permit Application?	X		
2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)?	X		
3. Copy of Public Notice?	X		
4. Complete Fact Sheet?	X		
5. A Priority Pollutant Screening to determine parameters of concern?			X
6. A Reasonable Potential analysis showing calculated WQBELs?	X		
7. Dissolved Oxygen calculations?			X
8. Whole Effluent Toxicity Test summary and analysis?			X
9. Permit Rating Sheet for new or modified industrial facilities?			X

I.B. Permit/Facility Characteristics

	Yes	No	N/A
1. Is this a new or currently unpermitted facility?		X	
2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit?	X		
3. Does the fact sheet or permit contain a description of the wastewater treatment process?	X		
4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit?		X	
5. Has there been any change in streamflow characteristics since the last permit was developed?		X	
6. Does the permit allow the discharge of new or increased loadings of any pollutants?		X	
7. Does the fact sheet or permit provide a description of the receiving water body(s) to which the facility discharges, including information on low/critical flow conditions and designated/existing uses?	X		
8. Does the facility discharge to a 303(d) listed water? DOWNSTREAM IMPAIRMENTS		X	
a. Has a TMDL been developed and approved by EPA for the impaired water?		X	
b. Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit?	X		
c. Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?	X		
9. Have any limits been removed, or are any limits less stringent, than those in the current permit?		X	
10. Does the permit authorize discharges of storm water?		X	

I.B. Permit/Facility Characteristics – cont.	Yes	No	N/A
11. Has the facility substantially enlarged or altered its operation or substantially increased its flow or production?		X	
12. Are there any production-based, technology-based effluent limits in the permit?	X		
13. Do any water quality-based effluent limit calculations differ from the State's standard policies or procedures?		X	
14. Are any QBELs based on an interpretation of narrative criteria?	X		
15. Does the permit incorporate any variances or other exceptions to the State's standards or regulations?		X	
16. Does the permit contain a compliance schedule for any limit or condition?		X	
17. Is there a potential impact to endangered/threatened species or their habitat by the facility's discharge(s)?	X		
18. Have impacts from the discharge(s) at downstream potable water supplies been evaluated?	X		
19. Is there any indication that there is significant public interest in the permit action proposed for this facility?		X	
20. Have previous permit, application, and fact sheet been examined?	X		

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Checklist – for POTWs
(To be completed and included in the record only for POTWs)

II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?	X		
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	X		

II.B. Effluent Limits – General Elements	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?	X		
2. Does the fact sheet discuss whether “antibacksliding” provisions were met for any limits that are less stringent than those in the previous NPDES permit?			X

II.C. Technology-Based Effluent Limits (POTWs)	Yes	No	N/A
1. Does the permit contain numeric limits for <u>ALL</u> of the following: BOD (or alternative, e.g., CBOD, COD, TOC), TSS, and pH?	X		
2. Does the permit require at least 85% removal for BOD (or BOD alternative) and TSS (or 65% for equivalent to secondary) consistent with 40 CFR Part 133?	X		
a. If no, does the record indicate that application of WQBELs, or some other means, results in more stringent requirements than 85% removal or that an exception consistent with 40 CFR 133.103 has been approved?			X
3. Are technology-based permit limits expressed in the appropriate units of measure (e.g., concentration, mass, SU)?	X		
4. Are permit limits for BOD and TSS expressed in terms of both long term (e.g., average monthly) and short term (e.g., average weekly) limits?	X		
5. Are any concentration limitations in the permit less stringent than the secondary treatment requirements (30 mg/l BOD5 and TSS for a 30-day average and 45 mg/l BOD5 and TSS for a 7-day average)?		X	
a. If yes, does the record provide a justification (e.g., waste stabilization pond, trickling filter, etc.) for the alternate limitations?			X

II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	X		
2. Does the fact sheet indicate that any WQBELs were derived from a completed and EPA approved TMDL?			X
3. Does the fact sheet provide effluent characteristics for each outfall?	X		
4. Does the fact sheet document that a “reasonable potential” evaluation was performed?	X		
a. If yes, does the fact sheet indicate that the “reasonable potential” evaluation was performed in accordance with the State’s approved procedures?	X		
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?			X
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have “reasonable potential”?	X		
d. Does the fact sheet indicate that the “reasonable potential” and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations)?			X
e. Does the permit contain numeric effluent limits for all pollutants for which “reasonable potential” was determined?	X		

II.D. Water Quality-Based Effluent Limits – cont.	Yes	No	N/A
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	X		
6. For all final WQBELs, are BOTH long-term AND short-term effluent limits established?	X		
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	X		
8. Does the record indicate that an “antidegradation” review was performed in accordance with the State’s approved antidegradation policy?	X		

II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters and other monitoring as required by State and Federal regulations?	X		
a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?		X	
3. Does the permit require at least annual influent monitoring for BOD (or BOD alternative) and TSS to assess compliance with applicable percent removal requirements?		X	
4. Does the permit require testing for Whole Effluent Toxicity?		X	

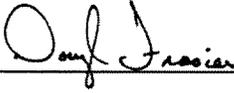
II.F. Special Conditions	Yes	No	N/A
1. Does the permit include appropriate biosolids use/disposal requirements?	X		
2. Does the permit include appropriate storm water program requirements?			X

II.F. Special Conditions – cont.	Yes	No	N/A
3. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			X
4. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?	X		
5. Does the permit allow/authorize discharge of sanitary sewage from points other than the POTW outfall(s) or CSO outfalls [i.e., Sanitary Sewer Overflows (SSOs) or treatment plant bypasses]?		X	
6. Does the permit authorize discharges from Combined Sewer Overflows (CSOs)?		X	
a. Does the permit require implementation of the “Nine Minimum Controls”?			X
b. Does the permit require development and implementation of a “Long Term Control Plan”?			X
c. Does the permit require monitoring and reporting for CSO events?			X
7. Does the permit include appropriate Pretreatment Program requirements?			X

II.G. Standard Conditions	Yes	No	N/A																								
1. Does the permit contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?	X																										
List of Standard Conditions – 40 CFR 122.41 <table border="0" style="width: 100%;"> <tr> <td>Duty to comply</td> <td>Property rights</td> <td>Reporting Requirements</td> </tr> <tr> <td>Duty to reapply</td> <td>Duty to provide information</td> <td>Planned change</td> </tr> <tr> <td>Need to halt or reduce activity not a defense</td> <td>Inspections and entry</td> <td>Anticipated noncompliance</td> </tr> <tr> <td>Duty to mitigate</td> <td>Monitoring and records</td> <td>Transfers</td> </tr> <tr> <td>Proper O & M</td> <td>Signatory requirement</td> <td>Monitoring reports</td> </tr> <tr> <td>Permit actions</td> <td>Bypass</td> <td>Compliance schedules</td> </tr> <tr> <td></td> <td>Upset</td> <td>24-Hour reporting</td> </tr> <tr> <td></td> <td></td> <td>Other non-compliance</td> </tr> </table>				Duty to comply	Property rights	Reporting Requirements	Duty to reapply	Duty to provide information	Planned change	Need to halt or reduce activity not a defense	Inspections and entry	Anticipated noncompliance	Duty to mitigate	Monitoring and records	Transfers	Proper O & M	Signatory requirement	Monitoring reports	Permit actions	Bypass	Compliance schedules		Upset	24-Hour reporting			Other non-compliance
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2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for POTWs regarding notification of new introduction of pollutants and new industrial users [40 CFR 122.42(b)]?	X																										

Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	<u>Douglas Frasier</u>
Title	<u>VPDES Permit Writer, Senior II</u>
Signature	<u></u>
Date	<u>1 April 2011</u>